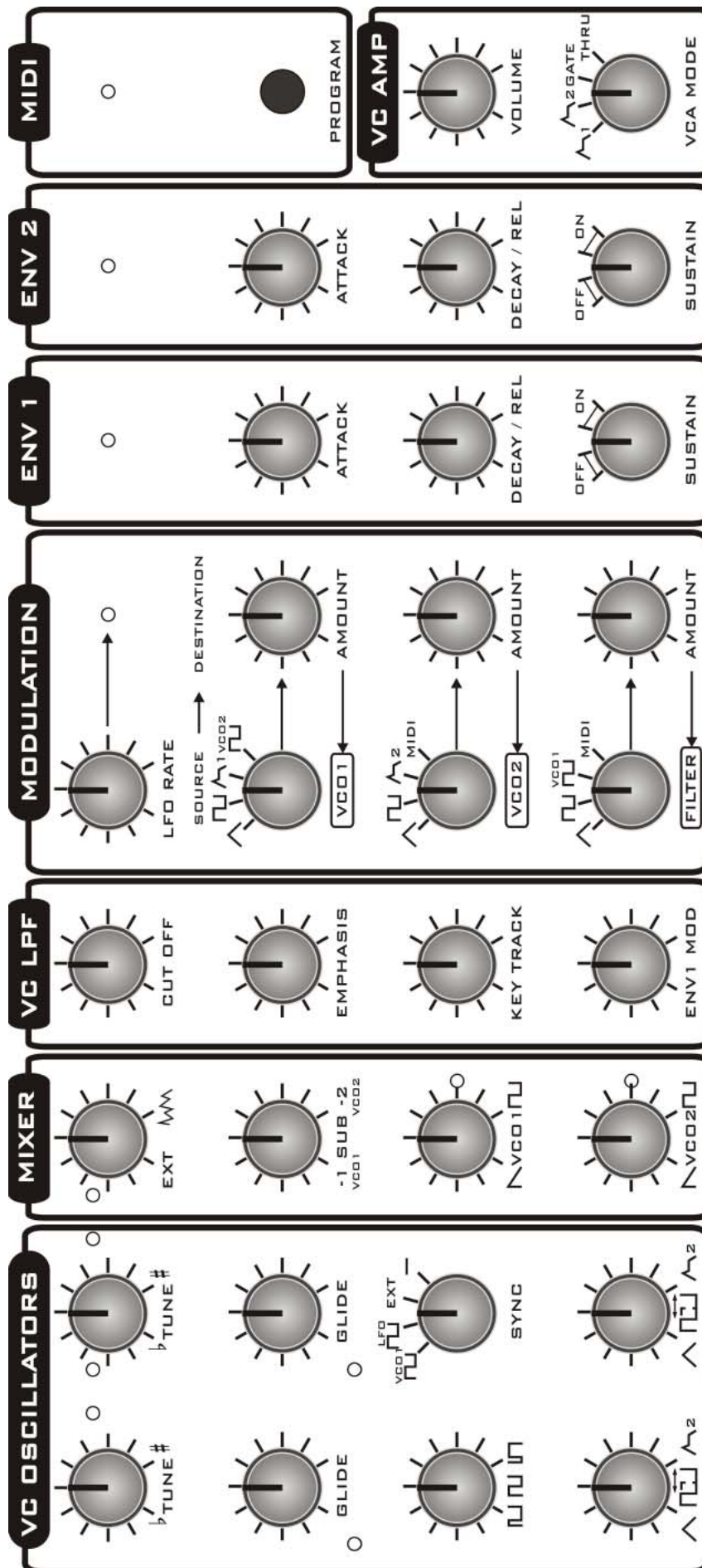


LEIPZIG

-R / -K



SPECIFICATION

Brief Overview:

Leipzig is a self contained TRUE analogue synthesiser. The voice circuitry is entirely analogue, using all discrete and op-amp components. There is no voice DSP.

Leipzig has a similar sound and specification to the classic Moog Prodigy / Rogue synthesisers, but with many improvements such as MIDI and more modulation paths.

VCO1

Tune, Glide, PW , PWM, Mod Source & Amount controls, Saw out, Pulse out

VCO2

Tune, Glide , Sync, PWM, Mod Source & Amount controls, Saw out, Pulse out

VCF

Low pass filter: Cut-off, Emphasis, Key Track, ENV1 Mod, Mod Source & Amount controls

Mixer

Audio source mixer, including external audio inputs

VCA

Mode switch, Output volume

ENV1

ASR envelope with trigger LED

ENV2

ASR envelope with trigger LED

LFO

Square & Triangle waves

Noise Generator

White noise

SUB oscillators

-1 from VCO1

-2 from VCO2

MIDI to CV Converter

16 bit high resolution with auxiliary controller CV2 output (modulation CV)

Many modulation possibilities.

Rotary controls:

25

Rotary switches:

6

Push button:

1

LEDs:

6

Jack sockets (6.35mm, mono);

3

MIDI Sockets;

2

Rugged steel contruction

Dimensions:

Height: x 5U

Weight:

xKg

Power:

x

Accessories:

Manual

Mains adaptor (230v)

Leipzig-k has the addition of;

Headphone output socket.

CV1, CV2, Gate input and output sockets.

2nd LFO (and VCA) used for modulation, via 4 rotary controls.

Additional rear panel MIDI LED.

LFO2 LED.

Mod wheel.

Pitch Bend Wheel.

LCD, backlit display.

8 editing buttons.

37 velocity sensitive keys.

MIDI Out

INTRODUCTION

Congratulations on buying the Leipzig synthesiser. Leipzig is part of the Analogue Solutions range of analogue music equipment. Leipzig is a precision electronic musical instrument. It combines all the often needed music electronic circuitry to make a music synthesiser in one compact module.

No compromise has been made with the construction of Leipzig. Cheaper options in parts have not been used;

- Full rugged steel case - no plastic mouldings
- Good quality smooth potentiometers, fully sealed against dust
- Good quality knobs with spun aluminium caps
- High grade double sided lead free circuit board
- All power and signal input/outputs have EM filters to remove external noise and improve immunity
- High Quality DAC for MIDI to CV conversion - 16bit!
- Very stable MIDI to CV conversion
- Very stable analogue oscillators
- Expensive blue LEDs
- Hand built by humans
- Lasting quality and appeal with a life far longer than any software plug-in or DSP synth

APPLICATIONS

MONOSYNTHESISER

Leipzig is for use any time you need analogue sound effects, fat basses, screaming leads, beeps, tones, zaps, and all the other crazy sounds associated with analogue synthesis. Use in place of your boring digital synths and DSP soft synths.

EFFECTS PROCESSOR

Leipzig has an audio input socket, so you can feed external sounds into the onboard analogue filters for analogue processing.

SAFETY INSTRUCTIONS

Please read carefully before using:

- Only use the correct power adaptor - 230V (or 115V whatever your country needs)
- Never handle the adaptor with wet hands
- Never excessively bend the adaptor cable or get it trapped or place heavy objects on it. If the adaptor cable becomes damaged, replace the adaptor.
- Ensure the unit is disconnected from the mains before moving or cleaning.
- Always disconnect the unit from the mains if there is lightning in your area.
- Ensure the unit is on a stable surface, and never place heavy objects on top of it.
- Never allow young children or animals to operate the unit or adaptor.
- Do not use excessive force when using the controls or inserting cables to the connectors.
- The unit should not be operated in the rain or near water and should not be exposed to moisture. If the unit is brought from a cold environment to a warm one, the unit should be left to reach the ambient temperature.
- Keep unit away from heat sources, such as radiators, ovens, heaters etc.
- Never allow the unit to get wet. Do not operate it near water, like pools, sinks, bathrooms etc. Do not place beverages on or near it.
- Never open the case or attempt to make repairs. Refer any servicing to a qualified service personnel.

Preventing damage to other connected devices;

Leipzig has a very high dynamic range. It is capable of produce loud signals of very high and sub-sonic frequencies that could blow inadequate speakers if played too loud. It is recommended that input levels to external equipment (mixers, amp's etc.) is kept low when first connected, and then slowly increased to a userable level.

Maintenance Instructions

Any cleaning of the the case should be done with a clean lint-free cloth. DO NOT USE SOLVENTS OR CLEANERS, as this will deteriorate the exterior appearance of the equipment.

Mounting

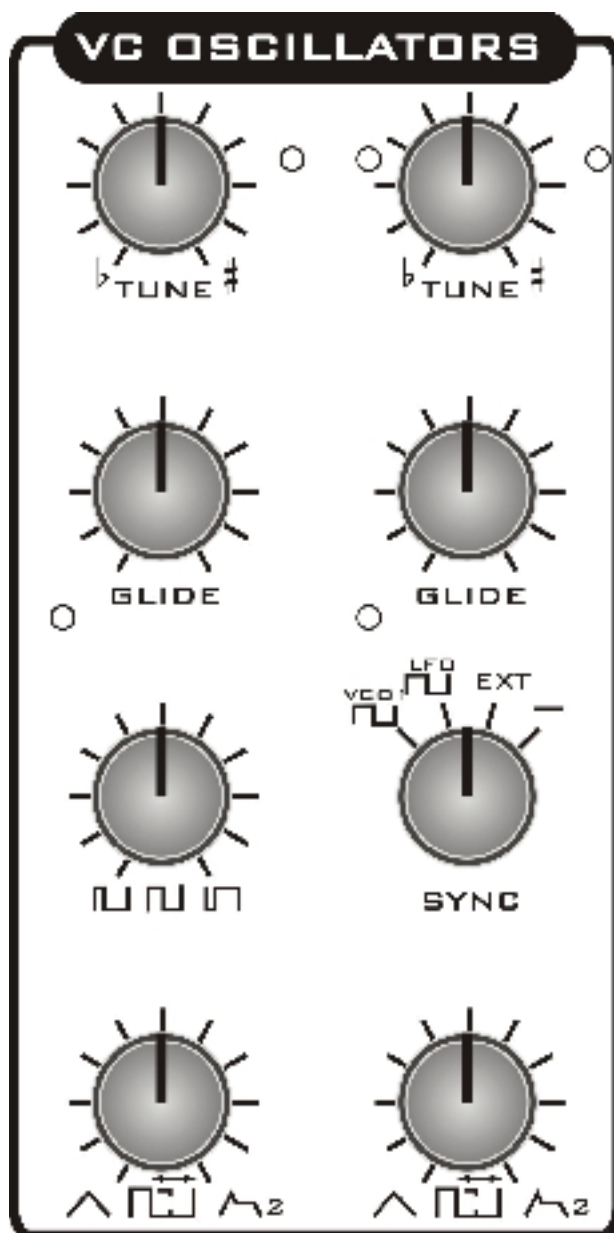
Mounting does not mean 'place on the wall' or 'to make love to' in this instance. Place the unit soundly on any stable surface so he cannot fall off or over, causing it or yourself injury.

CIRCUITS IN DETAILS

Here follows details on all the sockets and controls, with brief simplified explanations of what the circuits do. We have not gone into technical details on how and exactly what each circuit does but tried to explain each control's function and effect.

Anyone who has used synthesisers before should be familiar with the terms used and therefore be able to predict their behaviour and how they affect the sound. The best way to learn how to use Leipzig is to go straight ahead and play with it. Reading of this manual may only be necessary for finer operational detail.

VCO 1 & 2



The voltage controlled oscillators (VCOs 1 and 2) produce the raw audio waveform usually used as the initial source for sound creation. They provide cyclic audio waveforms that can be pitched. VCOs usually receive treatment from the VCF to turn their basic tones into pleasant sounds.

TUNE

Left TUNE is a master tune affecting BOTH oscillators.

Right TUNE is a detune affecting only oscillator 2.

The detune TUNE control can be used for playing VCO2 at intervals, like, say, a 3rd up from VCO1.

GLIDE

Two independent GLIDE controls (portamento) for the oscillators. Each time you play a new note, the pitch will glide from the last note to the new note. The GLIDE control alters the speed. At minimum there is no glide.

Pulse Width

(Just below VCO1 GLIDE control). For VCO1 only. This alters the pulse width for VCO1's square wave (alters the 'duty cycle'). If you do not understand this, don't worry

about it! Just turn it and hear how the tone changes.

SYNC

VCO2 only. This switch routes a sync signal to VCO2. Oscillator sync is where a master signal (selected by the switch) will reset the waveform of a slave signal (VCO2 in this case) each time the master waveform starts a new cycle.

Try the different settings and listen to the effect. You may have to modulate the pitch of either VCO1 or VCO2 to enhance the effect. There is a balancing act between the pitch of the two sound sources (usually the 2 VCOs) to get a good effect.

Sync source choices are;

VCO1 square wave
LFO square wave
EXTernal signal
Off (flat line symbol)

PWM

Two independent pulse width modulation controls (PWM), one for each VCO. This allows modulation of the square wave 'duty cycle'. Once again, don't worry about this technically, just enjoy the effect!

Turn to the left for LFO triangle wave modulation.
Turn to the right for Envelope 2 modulation.
Centre is zero (no modulation).

For VCO1, it is best to first put the Pulse Width control to the centre before using PWM, otherwise the sound might cut (unless that is the effect you want!)

NOISE GENERATOR

The noise generator produces white noise. This is like the hiss you hear between radio stations. The signal is available for filtering via the EXT/NOISE mixer control.

Noise would be used for sound effects such as breath, wind, percussion, etc.



MIXER

The mixer is used to bring various audio source signals together for filtering. There are four mixer controls. In all cases, centre is zero volume, or turn to the left or right to select either of two sound sources.

NOISE/EXT1 level

Turning the control anti-clockwise in increasing amounts sends the signal (if any) coming in off the rear panel EXT1 socket to the mixer.

Turning the control clockwise in increasing amounts sends white Noise to the mixer.

In a central position no signal is sent to the mixer.

-1/-2 SUB level

SUB is a duplication of the VCO square wave output, but at a lower octave. Use to beef up the sound.

Turning the control clockwise in increasing amounts sends a -2 octave VCO2 square wave signal to the mixer.

Turning the control anti-clockwise in increasing amounts sends a -1 octave VCO2 square wave signal to the mixer.

In a central position no signal is sent to the mixer.

Saw/Pulse VCO1 level

Turning the control clockwise in increasing amounts sends VCO1s pulse signal to the mixer.

Turning the control anti-clockwise in increasing amounts sends VCO1s sawtooth wave signal to the mixer.

In a central position no signal is sent to the mixer.

Saw/Pulse VCO2 level

Turning the control clockwise in increasing amounts sends VCO2s pulse wave signal to the mixer.

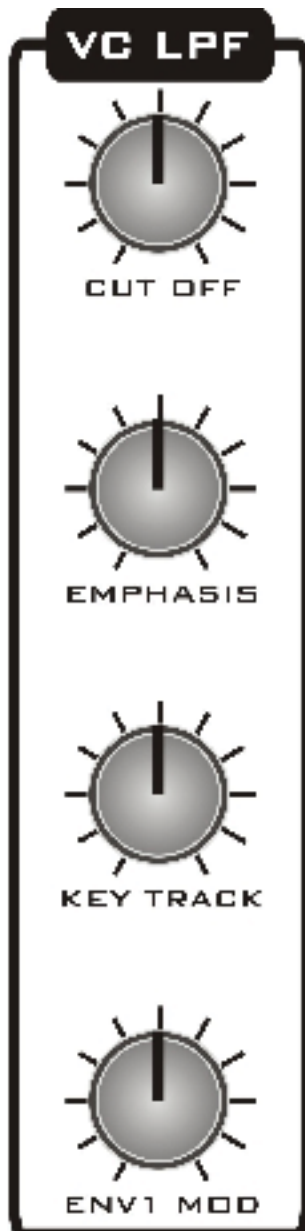
Turning the control anti-clockwise in increasing amounts sends VCO2s sawtooth

wave signal to the mixer.

In a central position no signal is sent to the mixer.

LED indicators

Each oscillator has its own 'frequency' LED. This is taken from the VCO's pitch, but of course divided down enough octaves so you can see it flash!



VCF

The voltage controlled filter low pass filter (VC LPF) is used to alter the tone of the signal coming from the mixer output (VCOs/ Noise) and is the heart of what gives an analogue synth its character.

CUT OFF

This sets the cut-off frequency, the point at which the LPF will start to filter-out harmonics.

EMPHASIS

Emphasis (Resonance, Q or Feedback) is a feature of adding feedback to the filter circuit. The output of the filter is fed back into the filter input. Emphasis sets the level of feedback. As the control is increased to higher levels the filter will self-oscillate. The oscillation frequency is set by the cut-off control.

Use Emphasis to alter the tone of the filter effect. It can be used to create 'squiggly' sounds and 'pulse hits'.

KEY TRACK

The pitch CV (CV1) also controls the filter-cut off. The KEY-TRACK control alters how much this happens. Key Track is sometimes also known as Key Follow. This is used when you want a brighter sound as you play a higher pitch, since an increasing pitch means higher CV1, which in turn increases the cut-off frequency (assuming the KEY TRACK control is up). This brightening of sound is how real sound behaves. 'Real' instruments usually sound brighter in their higher registers.

KEY TRACK can also be used to 'play' the resonance, but setting EMPHASIS to self-oscillate.

ENV1 MOD

This control alters how much the cut-off is modulated by envelope generator 1. Balance this control with the CUT OFF control.

Filtering External Sound Sources

External sound sources, such as vocals, guitars, mixer sends, samplers, etc. can be sent through the filter for extra treatment. Note, mic's and guitars may need pre-amp'ing; use if the signal is too quiet.

Simply plug the sound source into the rear panel EXT1 socket.

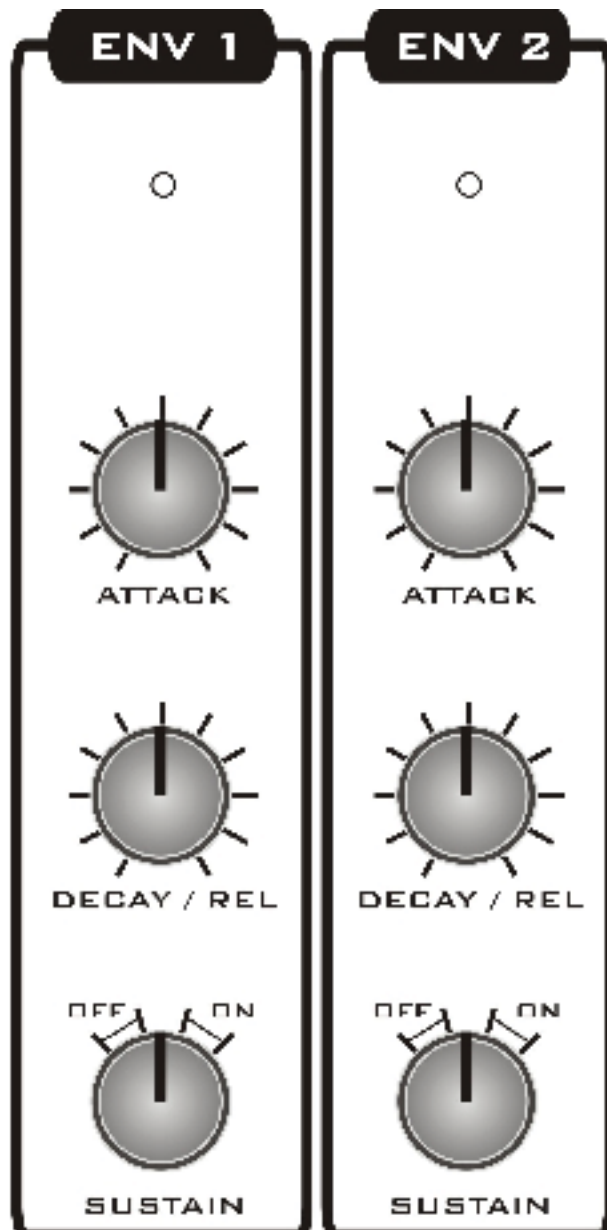
Turn the mixer control EXT/NOISE to EXT, and up to a suitable level.

You may wish to return the VCO1 and VCO2 mixer controls to their centre positions so the VCOs cannot be heard.

Turn the VCA mode switch to THRU (ON). This will leave the VCA open so a constant signal can be heard.

Finally, play around with the filter and modulation settings as necessary.

The VCO signals can also be introduced, and use the various VCA modes and envelopes if you wish to contour the sound level and add additional effects.



ENVELOPE GENERATORS

LED indicators

These will turn on each time the EGs are triggered.

EG1/2 ASR

EG1 and EG2 are identical. They are ASR (attack / sustain / release) envelope generators. Use to modulate various parameters of the synthesiser.

ATTACK

Controls the Attack time. This is the rate at which the envelope signal will take to reach full level when the MIDI note/key pressed.

DECAY / REL

Controls the Decay or the Release time - the time it takes the envelope signal to return to zero when the key is released.

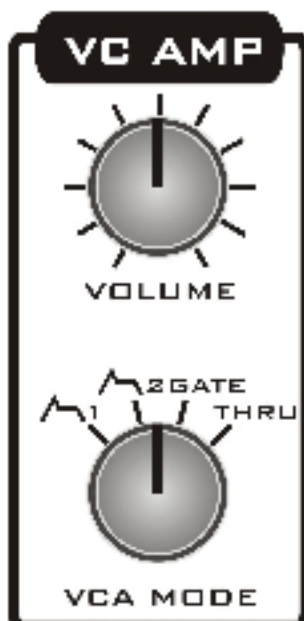
SUSTAIN

If this switch is on, then the DECAY / REL control becomes Release. If a key is held down, the EG is sustained at full level.

If this switch is off, then the DECAY / REL control becomes Decay. There will be

no sustain.

Note: this switch has 4 positions. The left 2 positions turn SUSTAIN off, and the right 2 on. We are unable to get 2 way switches for the series of potentiometers/switches that we use.



VCA

The Voltage Controlled Amplifier (VCA) is the circuit that is used to change the output volume. Normally an envelope signal would be used to do this, so the sound starts loud then gradually fades away. The filter audio output is hard-wired to the VCA signal input.

Mode rotary switch control

The VCA can be controlled in 4 modes;

EG1

When EG1 is selected, the envelope signal of EG1 is used to modulate the VCA level. Use it if you require the VCA level to change over time.

EG2

When EG2 is selected, the envelope signal of EG2 is used to modulate the VCA level. Use it if you require the VCA level to change over time.

GATE

When GATE is selected, the MIDI converter's Gate signal is used to modulate the VCA. With this, the VCA level is either off or full on. The audio envelope would be like an organ's, with no attack or decay time.

THRU

When THRU (on or bypass) is selected, the VCA is left permanently on at full level. Use this setting if you wish to use the Filter as an effects processor, to process external audio fed into Semblance.

VOLUME

This sets the output volume of synth, i.e. the output level from the VCA that is output from the SIGNAL output socket.

LFO

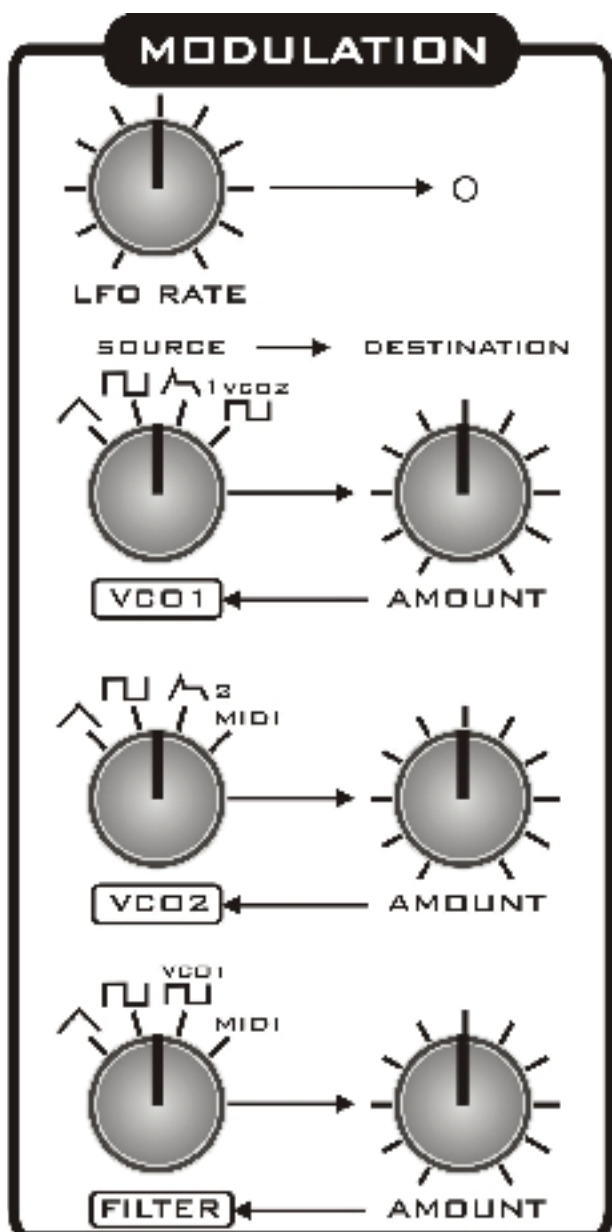
This is in the MODULATION panel (see later). The Low Frequency Oscillator (LFO) is basically identical to a VCO; it is another oscillator, except that it produces periodic wave forms of low frequency, typically sub-audio. These slow cyclic waveforms are used for modulating other circuit parameters, for example, for sweeping the filter cut-off up and down, either slowly for a nice sweep, or faster for a 'wah-wah' type effect. It could be used to modulate the VCO pitch for vibrato.

The LFO is found in the MODULATION panel (see diagram).

LFO RATE

This sets the frequency (speed) of the LFO.

LFO SPEED LED indicator



This will turn on each time the LFO signal is at a positive voltage, indicating the speed of the LFO waveform.

MODULATION

The modulation panel is where you route SOURCE modulation signals to their DESTINATIONS. Think of it as a modulation matrix.

There are three modulation destinations in this panel;

- VCO1 (pitch)
- VCO2 (pitch)
- FILTER (cut-off)

These can be modulated by the signals selected by their respective SOURCE switched. The AMOUNT control alters the level of modulation.

The modulation sources available are;

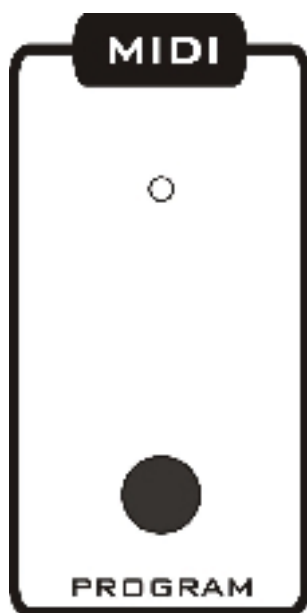
VCO1: LFO triangle, LFO Square, EG1, VCO2 square

VCO2: LFO triangle, LFO Square, EG2, MIDI (modulation CV / CV2)

FILTER: LFO triangle, LFO Square,

VCO2 square, MIDI (modulation CV / CV2)

These are not the only modulation types available. Other modulations are available within each feature's own panel (e.g. VCO1 and 2 can have PWM, the LPF has EG1 and KEY TRACK modulation).



MIDI to CV CONVERTER

Note; for Leipzig-k, see separate dedicated MIDI section towards the end of the manual.

The MIDI to CV converter (MCV) is a device that converts some MIDI signals into analogue voltages. It allows analogue synthesiser circuits to be integrated and used with your MIDI set-up.

MIDI messages responded to are Note on/off, Velocity, Mod Wheel, All notes off. Note messages provide analogue outputs for pitch CV, auxiliary CV and Gate.

Note; The PROGRAM button is absent from the K version since all MIDI set-up editing is done via the LCD and 8 edit buttons. For details on MIDI set-up of the CV converter for the K version see the section later in the manual for Leipzig-k.

LED

The Activity LED will briefly light whenever it receives a MIDI message that itself will respond to, i.e. a message on the correct channel, and of correct type, note on/off and mod wheel (if CC/VEL source is set to mod wheel). It remains on when Red Square is in Program mode.

The MIDI to CV converter produces three kinds of signal;

- | | |
|------|---|
| CV1 | This is a pitch CV and is hard wired to control both VCO pitches. |
| CV2 | This is a modulation CV that is wired into the modulation panel |
| Gate | This is a note on/off signal wired into the VCA and EG triggers. |

To Set MIDI Receive Channel

Press and hold the Program button. Then do either;

Press a MIDI key. This will set and store the receive channel to the channel received in the note data.

CV2 will set itself to Velocity.
Release the Program button.

Or

Move a Continuous Controller. This will set and store the receive channel to the channel received in the CC data.

REAR PANEL



REAR PANEL DETAILS

The rear panel is shown above and detailed below;

POWER IN

This unit features a standard IEC power socket. Check the correct mains voltage is selected on the switch on the bottom panel - 115V or 230V AC. Disconnect the unit from the mains supply before switching to the correct voltage for your mains supply.

MIDI IN

Plug your MIDI cable in here. Connect this to the MIDI out or thru of your MIDI controller.

MIDI THRU

The MIDI data coming into the In socket is copied to the Thru socket. This is so you can control additional devices from your MIDI controller without the need of a MIDI thru box. The Thru socket will not function when in Poly mode.



EXT1 signal input socket

This is the input socket to feed audio signals into the synth. The signal is routed to the EXT audio input of the mixer.



EXT2 signal input socket

This is a second input socket to feed audio signals into the synth. The signal is routed to the EXT audio input of the mixer.



SIGNAL output socket

This is the main audio output Leipzig. It is the signal output from the VCA, post-Volume control.

All jack sockets are 6.35mm mono.

Try to keep your leads under 3M to keep the signal quality as clean as possible.

REAR PANEL AUDIO CONNECTIONS

The main signal output is on the rear panel and is oddly labelled VCO OUT. Connect this socket to a spare mixing desk input channel. If you want to feed external signals into Leipzig, use the rear panel EXT1 or EXT2 sockets. Maybe hardwire it from your desk's effect send.

It is recommended to keep your MIDI and CV/audio cables as short as possible to keep the signal quality as high as possible. We recommend no more than 3 metre cable lengths.

Leipzig Keyboard (Leipzig-k)

Details subject to change.

The K version is essentially identical to the R version. The 'key' differences are outlined below, and explained in more detail later;

No MIDI button since all editing done via 8 edit keys and LCD.

Performance section: a 2nd LFO whose depth is controlled with the Mod wheel.

Rear panel CV1/CV2/Gate input and output sockets.

Rear panel headphone socket.

LCD and edit buttons to enable MIDI set-up to be edited.

37 note velocity sensitive keyboard.

Pitch and Mod Wheels.

Rear Panel



HEADPHONE socket

This is a 6.35mm socket. The signal is mono. Level is controlled together with the Main Out (labelled VCA OUT) socket level using the VOLUME control on the front panel.



CV1 out socket

This is a 6.35mm socket. The pitch CV signal is fed out here from the MIDI-CV converter.



CV2 out socket

This is a 6.35mm socket. The aux/controller CV signal is fed out here from the MIDI to CV converter.



GATE out socket

This is a 6.35mm socket. The Gate signal is fed out here from the MIDI to CV converter.



CV1 in socket

This is a 6.35mm socket. This is a pitch CV input socket if you want to control Leipzig-k's pitch from an external synth. Scaling is 1v/Oct.



CV2 in socket

This is a 6.35mm socket. This is a CV input socket if you want to control Leipzig-k's the 'CV2' patch points (selected via the rotary switches) using an external synth.



GATE in socket

This is a 6.35mm socket. This is a Gate input socket if you want to trigger the 2 envelope generators via an external synth. Triggering is positive 5v or more signal.

CV/GATE JACKS

If you insert a jack plug into the CV in or out sockets then internal connection will be broken.

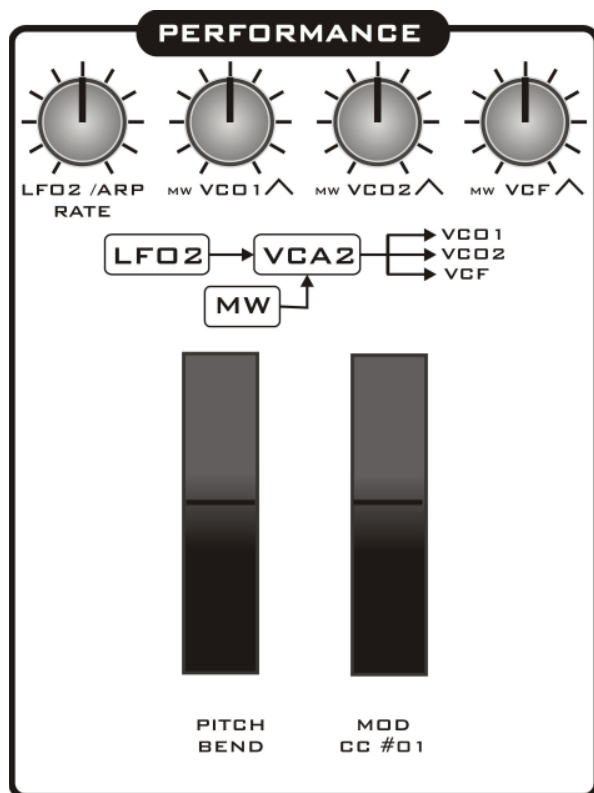
E.g., if you connect an external CV sequencer or MIDI to CV converter to the CV1, CV2, Gate In sockets, you will disconnect the Leipzig's internal MIDI-CV converter from the voice circuits. This way you can directly control the voice circuits from an external device. The internal MIDI-CV converter will still work, and its signals still available from the CV1, CV2, Gate Out sockets.

Likewise, if you connect the CV1, CV2, Gate Out sockets to an external analogue synth, the internal MIDI-CV converter will be disconnected from the internal voice circuits.

In summary, the signal flow is such;

Internal MIDI-CV converter -> CV/Gate Out Sockets -> CV/Gate In Sockets -> Internal Voice circuits.

By inserting jacks into either the In or Out sockets, you will disconnect the internal MIDI-CV converter from the voice circuits.



Top Panel - PERFORMANCE

Additional controls as found in the PERFORMANCE section;

LFO2 SPEED

This control alters the speed of LFO2.

VCO1 MOD LEVEL

This control affects the pitch modulation level of VCO1.

In the centre the level is zero.

Anticlockwise assigns the Mod Wheel analogue voltage to control pitch.

Clockwise assigns LFO2 to control pitch (vibrato/triangle wave).

VCO2 MOD LEVEL

This control affects the pitch modulation level of VCO2.

In the centre the level is zero.

Anticlockwise assigns the Mod Wheel analogue voltage to control pitch.

Clockwise assigns LFO2 to control pitch (vibrato).

VCF CUTOFF MOD LEVEL

This control affects the cut off modulation level of VCF.

In the centre the level is zero.

Anticlockwise assigns the Mod Wheel analogue voltage to control cut off.

Clockwise assigns LFO2 to control cut off (wah wah - great vintage term).

PITCH BEND WHEEL

Pitch Bend range can be set via the LCD display. Default value is usually set to +/-2 semitones. The Pitch Bend MIDI data is sent to the MIDI OUT socket and will also control the onboard MIDI to CV converter to affect the pitch of both VCOs equally.

MOD WHEEL

The mod wheel will send MIDI controller one data to the MIDI Out socket. CV2 can be set to be modulated by any controller, therefore can be set to one to be controlled by the mod wheel.

The actual analogue voltage (not the digital MIDI data) can also be used as a Mod source to control the pitch of VCO1 and VCO2, or the cut-off level of the filter, via the LEVEL controls in the PERFORMANCE section.

MISC. DETAILS

Top and rear panel MIDI LEDs show condition of Gate (note on/off).

As with computers, and other CPU controlled devices, when turning the unit off then on again, always ensure you leave switched off for a second or two to ensure the CPU will boot up correctly.

There will no doubt be a software update at some point. Any update will be made known on the Leipzig web page.

Hopefully the software is bug free, but if you spot anything let us know. But first ensure it is not user error!

If you require any updates, then there is only a small charge to cover the cost of the CPU and postage. This will be £5, including worldwide postage and instructions.

MIDI DATA EDITING

The keyboard / MIID setup can be edited using the buttons and LCD. All the parameters are self-explanatory, but details are here.

PAGE, PARAM -10, -U, +10, +U

There are six pages of parameters. Each page contains two sets of parameters.

To scroll through the 6 pages, and also enter the STORE page, press the PAGE button. Think of this as a Y setting in an X/Y data table.

To move the cursor between the 2 sets of data in each page, press the PARAM button (parameter). Think of this as an X setting in an X/Y data table.

So using the PAGE and PARAM buttons you can easily step through the parameters.

To alter a parameter's value, first select the parameter, ensuring the cursor is under the appropriate parameter, then use the +/- buttons to edit the value.

There are four +/- buttons;

- U decreases data by 1
- +U increases data by 1
- 10 decreases data by 10
- +10 increases data by 10

The U implies Units; to edit the units +/-.

OCT-, OCT+

You can quickly alter the keyboard octave setting +/- four values. Octave setting can also be edited via the LCD. The octave parameter/buttons are used to transpose the keyboard in whole octaves.

Transpose and Octave parameters only affect the keyboard data. That is the note information sent to the voice circuits and the data sent to the MIDI Out socket. These parameters will not affect MIDI information received at the MIDI In socket.

STORING PARAMETERS

The new value of any parameter you edit will be lost if you switch off the machine. So ensure you store the setup before switching off.

Press the PAGE button until you get to the store page. Then Press OCT+ to store the setup. Then the LCD will revert back to PAGE0.

If you do not wish to store, then just press PAGE again to return to PAGE0

RESTORING FACTORY DEFAULTS

Hold down button 8 (OCT+) whilst turning on the machine to restore factory default settings.

PARAMETERS AND PAGES IN MORE DETAIL

Page number (0-5) is displayed on the far left as a single digit. The top line shows parameter names, bottom line show parameter value.

PAGE0

(1)RX.CHAN	(2)TX.CHAN
1-16	1-16

Details:

- 1; Sets the MIDI receive channel for the internal MIDI-CV converter
- 2; Sets the MIDI transmit channel of the keyboard.

PAGE1

(3)TRANPOSE	(4)OCTAVE
000-015	000-003

Details:

- 3; Transposes the keyboard in semitones upwards.
- 4; Transposes the keyboard in 12 semitone increments (i.e. whole octaves).

PAGE2

(5)AUX.CC#	(6)PB.RNAGE
000-127	000-007

Details:

5; changes the MIDI controller number for CV2 (aux.CV). 127 is used to set velocity as the source. This setting will affect which MIDI contrller the keyboard or external MIDI will be the source for modulating CV2 (aux.CV). The controller you set can then be used to control whatever synth setting is set to MIDI on the front panel, for example filter cut-off.

- 6; Pitch bend range. +/- 0-7 semitone range.

PAGE3

(7)F.TUNE
0000-255

(8)P.SCALET
000-255

Details:

7; A very fine tune setting. This is used to trim the internal MIDI-CV DAC. Normally there would be no need to alter this.

8; This alters the octave spacing for the MIDI-CV converter. This affects the pitch/scaling of the VCOs. Normally there would be no need to alter this.

PAGE4

(9)LOCAL
0-1

(10)
not used

Details:

11; This turns on/off Local.

0= off. This means the keyboard will not play the internal voice. The voice can only be controlled via the CV/Gate sockets or an external MIDI device such as a sequencer.

1= on. This means the keyboard will play the internal voice.

Eitherway, the note data you play on the keyboard will be sent to the MIDI Out socket.

12; This setting is not used. However, it will display the last note played!

PAGE5

This is the page used to store set-up, as described earlier.

Specification subject to change without notice.

Warranty

This unit comes with a 1 year (from purchase date) back to base warranty, (i.e. customer must arrange and pay for carriage to and from Analogue Solutions or the dealer from which purchased).

This warranty shall not apply where the product has been subject to alteration, misuse, accident, neglect (such as extremes of temperature and/or moisture) or to wear resulting from normal use.

At the sole discretion of Analogue Solutions, the warranty is deemed to be void should the unit be or considered to have been opened or any other modifications or tampering be carried out by unauthorised parties.

CE Compliance

This unit complies with EU Directives 73/23/EEC and 89/336/EEC.
Standards: EN55103-1, EN55103-2, EN60065



Leipzig 'user manual'
Analogue Solutions
web: www.analoguesolutions.com
web: www.analoguesolutions.co.uk
email: semblance@analoguesolutions.com
tel/fax: +44 (0) 1384 35 36 94
post: 56 kingsley road, kingswinford, dy6 9rx, uk